CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No. CTCE/BBMP/KRIDL/W.No.03/CSR-01-240c/CEMENT/2016-17 Date: 11.01.2017

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
*** Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
*** Name of Work**	:	Construction of concrete drains & concrete roads at Rajivgandhi Nagar in Attur Ward No.03, BBMP, Bangalore.
*** Reference**	:	BBMP/EE(YNK.D)/W.O/109/2016-17 Dated: 07.01.2017
*** Sample ID**	:	Cement – Sample 1
Sample Received on	:	07.01.2017
Period of Testing	:	07.01.2017 to 11.01.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	185 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

AE W3 11/1

AE-03

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Job No.: CTCE/BBMP/KRIDL/W.No.03/CSR-01-240c/SAND-Gradation/2016-17 11.01.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Construction of concrete drains & concrete roads at Rajivgandhi Nagar in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/109/2016-17 Dated: 07.01.2017
* Sample ID	:	Fine Aggregates - Sample 1
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	07.01.2017
Date of Testing	:	11.01.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.80	90-100	90-100	90-100	95-100
2.36	75.60	60-95	75-100	85-100	95-100
1.18	53.60	30-70	55-90	75-100	90-100
600 Micron	23.60	15-34	35-59	60-79	80-100
300 Micron	11.10	5-20	8-30	12-40	15-50
150 Micron	4.10	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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AE W3 14/1 AE-03

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Job No.: CTCE/BBMP/KRIDL/W.No.03/CSR-01-240c/AGG/GR/2016-17 11.01.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Construction of concrete drains & concrete roads at Rajivgandhi Nagar in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/109/2016-17 Dated: 07.01.2017
* Sample ID	:	Coarse Aggregates (40mm) - Sample 1
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2016)
Sample Received on	:	07.01.2017
Date of Testing	:	11.01.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2016)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.00	95-100	85-100
20	32.96	30-70	0-20
10	14.46	10-35	0-5
4.75	4.46	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/KRIDL/W.No.03/Steel/2016-17 11.01.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Construction of concrete drains & concrete roads at Rajivgandhi Nagar in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/109/2016-17 Dated: 07.01.2017
* Samples ID	:	12 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	11.01.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	515	517	13.4	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.03/CSR-01-240c/Cube/2016-17

13.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of concrete drains & concrete roads at Rajivgandhi Nagar in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/109/2016-17 Dated: 07.01.2017
* Sample ID	:	Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.01.2017	13.02.2017	8.105	475.5	21.13
2	16.01.2017	13.02.2017	8.256	492.3	21.88
3	16.01.2017	13.02.2017	8.375	512.4	22.77

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AE W3 13/2 AE-03

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Job No.: CTCE/BBMP/KRIDL/W.No.03/CSR-01-240c/Cube/2016-17 18.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of concrete drains & concrete roads at Rajivgandhi Nagar in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/109/2016-17 Dated: 07.01.2017
* Sample ID	:	Pavement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.01.2017	18.02.2017	8.226	489.5	21.76
2	21.01.2017	18.02.2017	8.307	512.7	22.79
3	21.01.2017	18.02.2017	8.413	523.4	23.26

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AEW3 18/2 AE-02

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18.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of concrete drains & concrete roads at Rajivgandhi Nagar in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/109/2016-17 Dated: 07.01.2017
* Sample ID	:	Pavement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.01.2017	18.02.2017	8.099	474.9	21.11
2	21.01.2017	18.02.2017	8.192	502.4	22.33
3	21.01.2017	18.02.2017	8.287	513.6	22.83

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